

CLAIMS

1. A scroll compressor comprising:

a fixed scroll having a spiral wall standing on one side face of an end plate, and secured in place; and

an orbiting scroll having a spiral wall standing on one side face of an end plate, and supported so as to be orbitally movable while being prevented from rotating, with the two walls engaged with each other,

wherein a back pressure chamber is provided on the other side face of the end plate of at least one of the fixed scroll and the orbiting scroll, and the one scroll is pressed against the other scroll by introducing fluid which is compressed by the fixed scroll and the orbiting scroll into the back pressure chamber;

a stepped shape is provided on the one side face of the end plate of at least one of the fixed scroll and the orbiting scroll, which has a high part with a height thereof which is high at a central side in a spiral direction, and a low part with a height thereof which is low at an outer peripheral end side; and

an upper rim of the wall of the other of the fixed scroll and the orbiting scroll is divided into a plurality of parts to form a stepped shape having, corresponding to the parts, a low upper rim where the height of the part is low at a central side in the spiral direction, and a high upper rim where the height of the part is high at an outer peripheral end side.

2. A scroll compressor according to claim 1, comprising an elastic body for pressing at least one of the fixed scroll and the orbiting scroll against the other scroll.

3. A scroll compressor according to claim 1, wherein the back pressure chamber is provided on the other side face of the fixed scroll.

4. A scroll compressor according to claim 1, wherein the back pressure chamber is provided on the other side face of the orbiting scroll.

5. A scroll compressor according to claim 4, comprising a bearing member which performs orbital movement while engaging the other side face of the end plate of the orbiting scroll, wherein the back pressure chamber is provided between the orbiting scroll and the bearing member.